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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031  
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449 A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet \_\_\_\_\_ of \_\_\_\_\_

Application Number: 09/887,188

Filing Date: 06/22/2001

First Named Inventor:

Group Art Unit: 2163

Examiner Name: n/a

Attorney Docket Number: 05222.00141

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-4,622,013	11/11/1986	Cherchio	
		US-4,874,784	10/17/1989	Clancey	
		US-4,981,766	01/02/1990	Derr, et al.	
		US-4,931,950	06/05/1990	Isle, et al.	
		US-4,964,077	10/16/1990	Eisen, et al.	
		US-4,977,529	12/11/1990	Gregg, et al.	
		US-5,002,491	03/26/1991	Abrahamson, et al.	
		US-5,170,464	12/08/1992	Hayes, et al.	
		US-5,189,402	02/23/1993	Naimark, et al.	
		US-5,208,745	05/04/1993	Quentin, et al.	
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		US-5,239,617	08/24/1993	Gardner, et al.	
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		US-5,310,349	05/10/1994	Daniels, et al.	
		US-5,311,422	05/10/1994	Loftin, et al.	
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		US-5,326,270	07/05/1994	Ostby, et al.	
		US-5,359,701	10/25/1994	Chiang, et al.	
		US-5,372,507	12/13/1994	Goleh	

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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
		EPO 0 689 132 A2	12/27/95	Laffra	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 798 655 A2	10/01/97	Jervis, et al.	
		WO 00/04478	01/27/00	Jonsson	
		WO 97/44766	11/27/97	Cook	
		WO 98/03953	01/29/98	Simmons	
		WO 98/25251	06/11/98	Ho	
		WO 98/32109	07/23/98	De Lange	

Examiner Signature	<i>W. E. SIEFERT</i>	Date Considered	25 JUN 03
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First Named Inventor:

Group Art Unit: 2163

Examiner Name: n/a

Attorney Docket Number: 05222.00141

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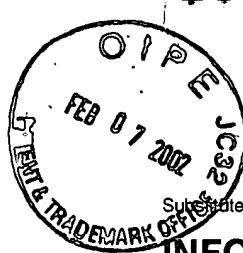
<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>cj</i>		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
		"ACM Transactions on Information Systems," 1988 at <a href="http://www.acm.org/pubs/toc/Abstracts/tois/59298.html">www.acm.org/pubs/toc/Abstracts/tois/59298.html</a>	
		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story, 1996.	
		"A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994	
		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
		"DDD--A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
		"Automated Training of Legal Reasoning" at <a href="http://www.bileta.ac.uk/94papers/muntjew.html">http://www.bileta.ac.uk/94papers/muntjew.html</a>	
		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
<i>gj</i>		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Educ., Vol. 13(5), pp-341-46, Dec. 1997	
		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

Examiner Signature	<i>John S. Jackson</i>	Date Considered	25 Jun 03
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		US-5,395,243	03/07/1995	Lutbin, et al.	
		US-5,441,415	08/15/1995	Lee, et al.	
		US-5,491,743	02/13/1996	Shilo, et al.	
		US-5,533,903	07/09/1996	Kennedy	
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		US-5,577,186	11/19/1996	Mann II, et al.	
		US-5,597,312	01/28/1997	Bloom, et al.	
		US-5,616,033	04/01/1997	Kerwin	
		US-5,644,686	07/01/1997	Hekmatpour	
		US-5,644,727	07/01/1997	Atkins	
		US-5,673,369	09/30/1997	Kim	
		US-5,690,496	11/25/1997	Kennedy	
		US-5,696,885	12/09/1997	Hekmatpour	
		US-5,701,400	12/23/1997	Amado	
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		US-5,727,161	03/10/1998	Purcell, Jr.	

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**Date Considered**

25 Jun 1983

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		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at <a href="http://www.calsci.com/Applications.html">www.calsci.com/Applications.html</a>	
		"KBLPS Overview" at <a href="http://www.cgi.com/CGIWEB/KBLPS/overindex4.html">www.cgi.com/CGIWEB/KBLPS/overindex4.html</a>	
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		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
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		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," <a href="http://www.centurionsys.com/rcl57.html">http://www.centurionsys.com/rcl57.html</a> , Aug. 1997	
		"Technical Report: Computer Aided Education and Training Initiative" at <a href="http://advlearn.lrc.pitt.edu/advlearn/papers/FINALREP.html">http://advlearn.lrc.pitt.edu/advlearn/papers/FINALREP.html</a>	
		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

Examiner Signature		Date Considered	25 Jun 03
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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet \_\_\_\_\_ of \_\_\_\_\_

Application Number : 09/887,188

**Filing Dat : 06/22/2001**

**First Named Inventor:**

Group Art Unit: 2163

Examiner Name: n/a

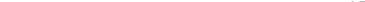
Attorney Docket Number: 05222.00141

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U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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WZ		US-5,727,950	03/17/1998	Cook, et al.	
		US- 5,745,652	04/28/1998	Bigus	
		US- 5,772,446	06/30/1998	Rosen	
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		US- 5,788,508	08/04/1998	Lee, et al.	
		US- 5,791,907	08/11/1998	Ramshaw, et al.	
		US- 5,799,151	08/25/1998	Hoffer	
		US- 5,799,292	08/25/1998	Hekmatpour	
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		US- 5,810,747	09/22/1998	Brudney, et al.	
		US- 5,822,745	10/13/1998	Hekmatpour	
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		US- 5,893,123	04/06/1999	Tuinenga	
		US- 5,911,581	06/15/1999	Knight Jeremy, et al.	

Examiner Signature		Date Considered	25 JUN 03
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		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <a href="http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html">http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html</a>	
		"WITS: A Reusable Architecture for a VR-Based ITS" at <a href="http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html">http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html</a>	
		"Brainmaker" at <a href="http://www.npiec.on.ca/~echoscan/28-04.htm">www.npiec.on.ca/~echoscan/28-04.htm</a>	
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		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

Examiner Signature *William E. Smith, Jr.*Date Considered *25 JUN 03*

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		US- 6,003,021	12/14/1999	Zadik, et al.	
		US- 6,015,348	01/8/2000	Lambright, et al.	
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		US- 6,018,731	01/25/2000	Bertrand, et al.	
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		US- 6,026,386	02/15/2000	Lannert, et al.	
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		US- 6,029,158	02/22/2000	Bertrand, et al.	
		US- 6,029,159	02/22/2000	Zorba, et al.	
		US- 6,032,141	02/29/2000	O'Connor, et al.	
		US- 6,064,998	05/16/2000	Zabloudil, et al.	
		US- 6,067,537	05/23/2000	O'Connor, et al.	
		US- 6,067,538	05/23/2000	Zorba, et al.	
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		US- 6,085,184	07/04/2000	Bertrand, et al.	

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<i>JCG</i>		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995		
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63		
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		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Management Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.		
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Examiner Signature	<i>J. C. G. Jr.</i>	Date Considered	<i>25 Jun 03</i>
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet \_\_\_\_\_ of \_\_\_\_\_

Application Number : 09/887,188

**Filing Dat : 06/22/2001**

**First Named Inventor:**

Group Art Unit: 2163

Examiner Name: n/a

Attorney Docket Number: 05222.00141

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## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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<i>WES</i>		"Engines for Education" URL: <a href="http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html">http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html</a> ; viewed Feb. 15, 1999.	
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		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	
		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
		"Decision Pro3.0" at <a href="http://www.vanguardsw.com/">www.vanguardsw.com/</a>	

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*William F. Scott, Jr.*

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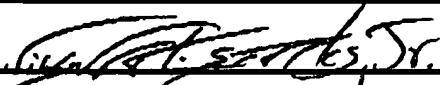
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<i>CL</i>		"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37	
<i>CL</i>		"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references	
<i>CL</i>		"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58	

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